

Title (en)
SELF-LEVELLING EQUIPMENT FOR MANIPULATING SOLID SURFACES

Title (de)
SELBSTNIVELLIERENDE AUSRÜSTUNG ZUR MANIPULATION FESTER OBERFLÄCHEN

Title (fr)
EQUIPEMENT DE NIVELLEMENT AUTOMATIQUE POUR LA MANIPULATION DE SURFACES SOLIDES

Publication
EP 4269701 A1 20231101 (EN)

Application
EP 23150679 A 20230109

Priority
IT 202200008207 A 20220426

Abstract (en)
It is provided a self-levelling equipment (1) for manipulating solid surfaces comprising a support frame (2), manipulating means (3) rotatable, relative to the frame (2), around a rotation axis (3a) and configured to manipulate a solid surface, support means (4) movable, relative to the frame (2), along a main plane (4a) transverse to the rotation axis (3a) and including at least a second bulkhead (40) comprising at least one support surface (41) configured to move in support of the solid surface, a first guide (42) arranged on a side opposite to the support surface (41) two second guides (43) separate and opposite to and arranged along an intermediate trajectory (4b) normal to the solid surface, adjustment means (5) configured to adjust the relative position between the frames (2, 4) and including a first pin (50), movably engaged in the first guide (42) and rotating, on command, relative to the frame (2), around an axis parallel to the rotation axis (3a) to move, in proportion to the rotation, the support means (4) along at least one direction parallel to the main plane (4a), wherein the frame (2) includes a first bulkhead (20) including at least two second pins (21) each movably engaged in a respective second guide (43), and wherein the equipment (1) further comprises a side plate (6) constrained to the second pins (21) at opposite ends to the first bulkhead (20) and extending parallel to the main plane (4a) so as to prevent relative translations between the frame (2) and the support means (4) transverse to the main plane (4a).

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CPC (source: EP)
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• IT 10190790697 A
• EP 3191647 B1 20200909 - SIMEX ENG SRL [IT]

Citation (search report)
• [A] EP 1222333 B1 20040317 - SIMEX ENGINEERING SRL [IT]
• [A] US 2019127930 A1 20190502 - SONDREAL DUSTIN W [US]

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